

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

- 1.-5. (Canceled)
6. (New) A permanent-magnet excited synchronous motor, comprising:
a stator having a plurality of tooth coils providing a pole coverage of 85%; and
a rotor interacting with the stator and constructed to dampen at least one of the harmonics of the rotor field selected from the group consisting of fifth harmonic and seventh harmonic, wherein at least one of the rotor and stator has a skew which with respect to the synchronous motor is between half of a slot pitch and 60% of a slot pitch.
7. (New) A permanent-magnet excited synchronous motor, comprising:
a stator having with a plurality of tooth coils providing a pole coverage of 80%, and
a rotor interacting with the stator and constructed to dampen at least one of the harmonics of the rotor field selected from the group consisting of fifth harmonic and seventh harmonic, wherein at least one of the rotor and stator has a skew which with respect to the synchronous motor is between half of a slot pitch and 0.4285 times a slot pitch.
8. (New) A permanent-magnet excited synchronous motor, comprising:
a stator having with a plurality of tooth coils providing a pole coverage of 85%, and
a rotor disposed for rotation in the stator,
wherein a combined skew between one half of a slot pitch and 60% of a slot pitch is apportioned to the stator and the rotor for damping the fifth harmonic or the seventh harmonic, or both, of the rotor field.

9. (New) A permanent-magnet excited synchronous motor, comprising:
- a stator having with a plurality of tooth coils providing a pole coverage of 80%, and
 - a rotor disposed for rotation in the stator,
- wherein a combined skew between one half of a slot pitch and 0.4285 times a slot pitch is apportioned to the stator and the rotor for damping the fifth harmonic or the seventh harmonic, or both, of the rotor field.